

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Method for preventing signal coupling between two or more flow-through type chip-based mounted piezoelectric resonator sensors used in an electrically conductive ~~flow-through liquid, sensor system wherein~~ each of the sensors ~~are connected in series or parallel and each sensor~~ has a flowcell body provided with its own resonator connected to its own single oscillator circuit and its own single power supply, said resonator being on a single substrate, comprising:

providing each sensor with its own, individual conducting shield which substantially surrounds said flowcell body, said conducting shield being connected to one pole of the power supply; and

making an inner wall of a flow tube ~~connecting~~ and each cavity out of a non-conducting material.

2. (Canceled)

3. (Previously Presented) Method in accordance with claim 1 wherein said flowcell body is made of a non-conducting material.

4. (Canceled)

5. (Currently Amended) Piezoelectric resonator sensor comprising:
a body comprising a resonator connected to ~~an~~ a single oscillator circuit; and
a single power supply, wherein said body is substantially surrounded by a conducting shield ~~which shield is connectable~~ connected to one pole of the power supply, and wherein an inner wall of a cavity, an inlet channel and an outlet channel are insulated ~~by~~ from said shield.

6. (Canceled)

7. (Canceled)

8. (Previously Presented) Sensor in accordance with claim 5, wherein said body is made of a non-conducting material.